

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/810,796

DATE: 10/30/2001

TIME: 11:50:53

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3 <110> APPLICANT: Jegla, Timothy James  
 4 ICAgen, Inc.  
 6 <120> TITLE OF INVENTION: KCNQ5, a Novel Potassium Channel  
 8 <130> FILE REFERENCE: 018512-005010US  
 10 <140> CURRENT APPLICATION NUMBER: US 09/810,796  
 C--> 11 <141> CURRENT FILING DATE: 2001-10-12  
 13 <150> PRIOR APPLICATION NUMBER: US 60/190,954  
 14 <151> PRIOR FILING DATE: 2000-03-21  
 16 <160> NUMBER OF SEQ ID NOS: 17  
 18 <170> SOFTWARE: PatentIn Ver. 2.1  
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 29 <220> FEATURE:  
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 37 ggtggcctga gggagagccg ccggggcaag cagggggccc ggatgagcct gctgggggaa 180  
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92 &lt;213&gt; ORGANISM: Homo sapiens

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95 <223> OTHER INFORMATION: human outwardly-rectifying, voltage-gated  
 96 potassium channel KCNQ5-1 coding sequence

98 &lt;220&gt; FEATURE:

99 &lt;221&gt; NAME/KEY: CDS

100 &lt;222&gt; LOCATION: (1)..(2694)

101 &lt;223&gt; OTHER INFORMATION: KCNQ5-1

103 &lt;400&gt; SEQUENCE: 2

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213 &lt;210&gt; SEQ ID NO: 4

214 &lt;211&gt; LENGTH: 897

215 &lt;212&gt; TYPE: PRT

216 &lt;213&gt; ORGANISM: Homo sapiens

218 &lt;220&gt; FEATURE:

219 &lt;223&gt; OTHER INFORMATION: human outwardly rectifying, voltage-gated

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232 Leu Gly Gly Gly Gly Gly Gly Leu Arg Glu Ser Arg Arg Gly Lys Gln
233          35          40          45
234 Gly Ala Arg Met Ser Leu Leu Gly Lys Pro Leu Ser Tyr Thr Ser Ser
235          50          55          60
236 Gln Ser Cys Arg Arg Asn Val Lys Tyr Arg Arg Val Gln Asn Tyr Leu
237   65          70          75          80
238 Tyr Asn Val Leu Glu Arg Pro Arg Gly Trp Ala Phe Ile Tyr His Ala
239          85          90          95
240 Phe Val Phe Leu Leu Val Phe Gly Cys Leu Ile Leu Ser Val Phe Ser
241          100         105         110
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245          130         135         140
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248 Arg Phe Ala Arg Lys Pro Phe Cys Val Ile Asp Thr Ile Val Leu Ile
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251          180         185         190
252 Thr Ser Ala Leu Arg Ser Leu Arg Phe Leu Gln Ile Leu Arg Met Val
253          195         200         205
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VERIFICATION SUMMARY

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